



EV/PI CONFERENCE

wI nsight Analysis

Mike Lowry

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wInsight Analysis Agenda

- wInsight/EVMS in the new millennium
 - Integrated Digital Data
- wInsight upgrade overview
 - Systems integration flow and recommendations
 - wInsight input requirements
 - Using sort windows to create data views
- Focus on program surveillance using wInsight
 - Improving the CAOs EVM analysis capability
 - Integrated data analysis
 - Support capabilities
 - Independent estimates at completion
- Integrated support team collaboration
 - Build integration and team collaboration
 - Using wInsight as a team tool
 - Creating collaborative environments
 - PI/PST wInsight data portals



wlInsight Software Upgrade Overview

- An upgraded version of wlInsight software suite was fielded to all CAOs with EVMS mandated contract requirements
- The newer version replaces the earlier 3.0 version and is also intended to replace Program Analyzer (PA), which is considered to be non-Y2K compliant
- wlInsight software suite includes: wlInsight Administrator, wlInsight, C/S Glue, and Risk+ for MS Project 98
- wlInsight Administrator is used to import data and export EVMS data in ANSI X12 format. wlInsight is used to perform EVM data analysis of the imported data
- C/S Glue is a schedule analyzer that uses MS Project 98.
- Risk+ software is also used in conjunction with MS Project to perform statistical calculations of project risk based upon scheduled task date requirements



System Integration with wlnsight

High End EV Tools

- Artemis
- COBRA
- MicroFusion
- MPM
- Dekker-TRAKKER
- SAP*

Scheduling Tools with Basic EV Capabilities

- MS Project 98
- Open Plan Professional
- Primavera P3

X12
or
Connect
Products

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CAO



wInsight System Requirements

Version 5.0 adds:

- Multiple program data sets and report periods to be opened and stored
- Recommend wInsight be hosted on LAN where large multiple programs are being tracked and reported
- Use as desk top only where single program is entered

Contract	Period
(All Contracts)	JAN 93
EAGLE	DEC 92
LAR VEHICLE	NOV 92
MOH-2	OCT 92
YMP	SEP 92
	AUG 92
	JUL 92
	JUN 92
	MAY 92

Structure: WBS Units: Dollars

Filter: (All Elements)

(All Elements)
 ProjOff = 'Smith'
 ElemLevel <= 2
 ElemLevel = 1

OK Cancel



wInsight 5.0 Sort Window Overview

Tool Bar

Project

Project Data Date

Performance Indicators Arrows

Variance Breach Indicators

WBS Description

WBS Level

Ready

1000 - MOH-2 CUM DOL ALL All Elements

	DESCRIPTION	LVL	LL	SPI Trend	CPI Trend	CPI to LRE Trend	VAR
5	PCC	3	✓	↓	↑	↑	
6	ENG DATA	3	✓	↓	↓	↓	
7	PROJ MANAGEMENT	2		↓	↓	↓	
8	ADPE	3	✓	↓	↓	↓	c
9	FUNC INTEGRA	3	✓	↓	↓	↓	
10	MOH-2	1		↓	↓	↑	
11	PERF MEASURE BL	2		↓	↓	↓	
12	GEN & ADMIN	2	✓	↓	↓	↓	
13	COMP PROGRAMS	3	✓	↔	↓	↓	
14	TEST & EVAL	2		↔	↑	↑	
15	SYS ENGINEERING	3	✓	↔	↓	↓	
16	DATA	2		↔	↓	↓	c



Focus of wInsight in DCMC

- The focus of DCMC's use of wInsight software analysis tools (wInsight, C/S Glue, and Risk +) is to improve the capability of the PI/PST and EVMS Monitors in performing EVM data analysis and monitor system compliance by:
 - Assisting in narrowing areas of surveillance to key high risk control accounts, work packages, and critical schedules
 - Providing customers with data and view charts consistent with early value added predictive analysis information
 - Establishing discipline in early insight reporting on actual and projected program cost, schedule, and technical performance problems, along with identifying possible systemic issues



Basis for Integrated Digital Data Analysis

- wInsight and the companion software tools C/S Glue and Risk+ provide the PI/PST with a powerful analysis capability
- Using wInsight the PST can load an ANSI X12 file to update the complete program WBS, review assignment responsibility matrix, and budgets for all contracts with one tool
- Reduce the time spent to perform complex program data analysis for the total program
- Using MS Project 98, wInsight data, C/S Glue, and Risk+, the analyst can link EVM data to program schedules in project to produce reliable predictive schedule analysis





PST can locate problem areas

wInsight Support Capabilities at a Glance

- Quickly identify problem areas using sort windows
- Set management thresholds based upon risk
 - 5%, 10%
- Color coded performance indicators
- Performance trend arrows
- Narrow data to area of responsibility
- WBS/OBS element and level

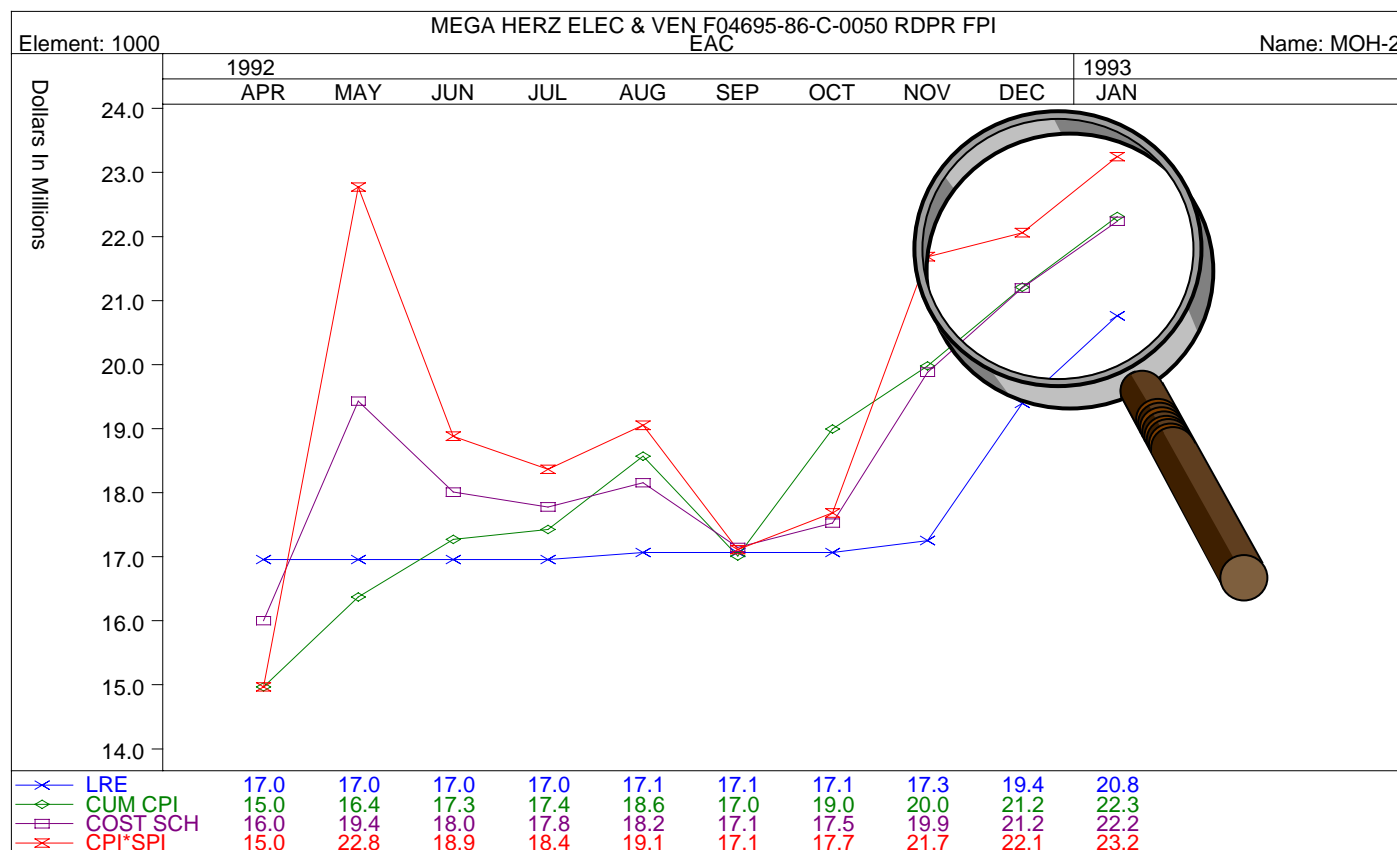
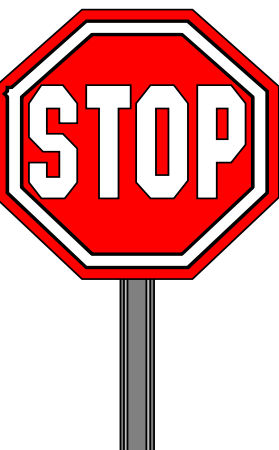
Color coded trend indicators and arrows

	WBS Number	DESCRIPTION	LVL	LL	% CMP	CAM	SV	CV	VAC	CPI	TCPI-LRE	SV	CV	BAC
1	1000	MOH-2	1		32.94	Jones	↓	↓	↓	0.932	1.040	-427.8	-499.0	20,796.2
2	2000	PROJ MANAGEMENT	2		62.79	Brown	↓	↓	↔	0.934	1.056	-13.2	-61.2	1,384.6
3	2100	PROJ MANAGEMENT	3	√	45.70	Brown	↑	↔	↔	0.942	1.044	-12.0	-17.4	618.4
4	2200	SYS ENGINEERING	3	√	85.04	Price	↔	↓	↔	0.901	2.650	6.4	-26.4	283.4
5	3000	PRIME EQUIP	2		30.29	Smith	↓	↓	↑	0.923	1.006	-384.8	-367.6	14,606.4
6	3200	COMMUNICATIONS	3	√	34.63	Tideman	↑	↓	↔	0.844	1.034	-203.2	-130.8	2,043.0
7	3600	PCC	3	√	28.99	Zepka	↓	↑	↔	0.850	1.027	-11.4	-296.2	5,800.6
8	4000	SPARES	2	√	17.87	Blair	↑	↑	↔	0.945	1.003	1.2	-7.8	755.6
9	5000	DATA	2		72.60	Hall	↔	↓	↔	0.838	1.055	-6.6	-17.8	127.0
10	5100	ENG DATA	3	√	38.51	Novak	↓	↓	↔	0.729	1.303	-6.6	-4.6	32.2
11	PMB	PERF MEASURE BL	2		33.65		↓	↓	↑	0.932	1.007	-427.8	-499.0	20,357.0
12	G&A	GEN & ADMIN	2	√	33.67		↓	↓	↔	0.932	1.007	-39.0	-45.2	1,850.4
13	(Aggregate)	CPI < TCPI by .05	0		33.17	(Mixed)	↓	↓	↓	0.920	1.021	-1,524.8	-1,973.0	68,654.8



Independent Estimates at Completion

Questionable
EAC if cum
CPI is .05
different than
LRE

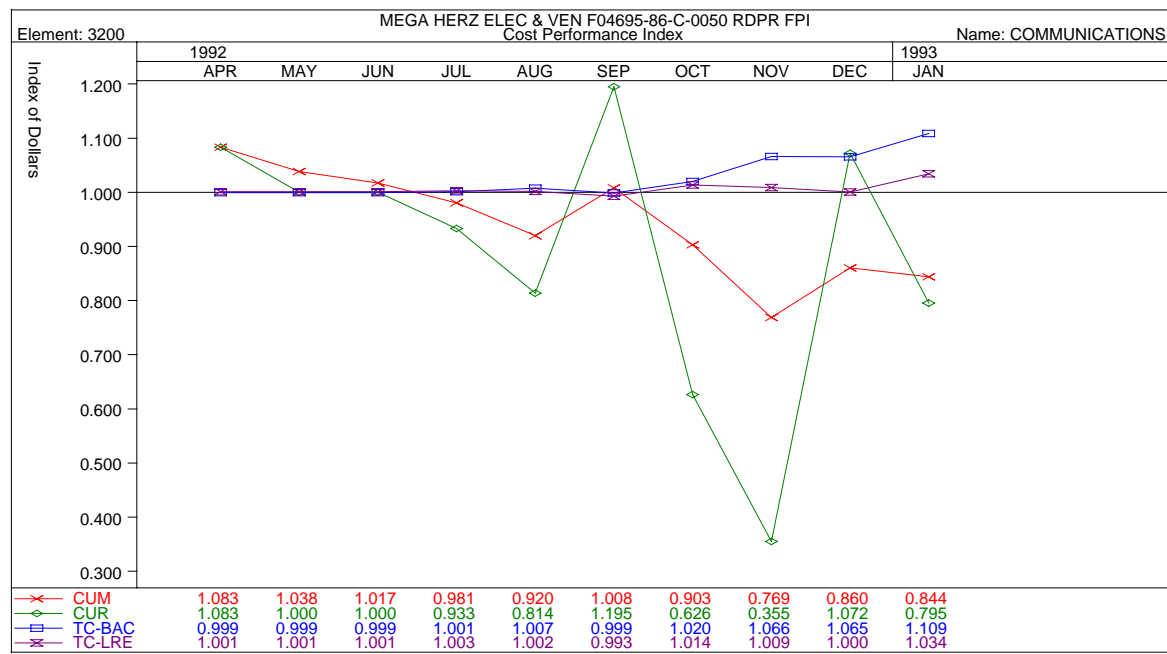
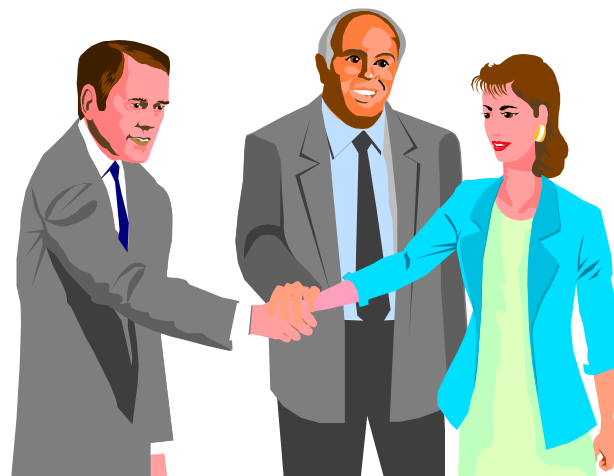


Visibility into trends and areas of risk
(advanced 30,60,90 day forecast)



Build Integration and Team Collaboration

- Using wInsight the PST should review supplier history and efficiency rates for future work required to achieve the BAC or EAC at any level of the WBS
- Avoid surprises, share the results of the teams analysis results with the supplier, try to reach agreement by getting the whole picture, then report your findings





Using wInsight as a Team

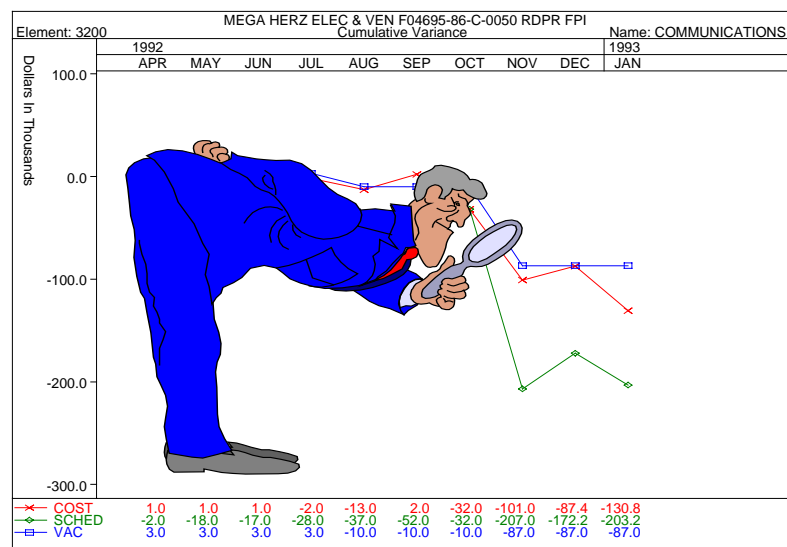
- wInsight is a team tool used to assist the PST in performing data analysis
- The tool is not a substitute for good program surveillance
- The PST must still ask the right questions based upon the results of the wInsight data analysis





Creating a Collaborative Environment

PI/PST members can now build their own portal views of EV data at functional or WBS levels for selected control account at different levels



	DESCRIPTION	LV	LL	SV	CV	VAC	SV	CV	VAC
1	MOH-2	1		↓	↓	↓	-427.	-499.	35.2
2	PROJ MANAGE	2	√	↓	↓	↔	-13.	-61.	-34.
3	ENGINEERING	2	√	↓	↓	↔	11.8	-16.	-66.
4	MANUFACTUR	2	√	↔	↔	↔	-348.	-268.	-276.
5	QUALITY CONT	2	√	↓	↓	↔	-39.	-107.	9.6
6	PERF MEASUR	2		↓	↓	↔	-388.	-453.	-367.
7	OVERHEAD	2	√				0.0	0.0	0.0
8	COST OF MON	2	√				0.0	0.0	0.0
9	GEN & ADMIN	2	√	↓	↓	↔	-39.	-45.	-36.
10	UNDIST BUDG	2	√				0.0	0.0	0.0
11	MGT RESERVE	2	√			↔	0.0	0.0	439.



PI/PST wInsight Data Portals

	DESCRIPTION	LVL	LL	SV	CV	VAC	VAR	SV	CV	VAC
1	MOH-2	1		↓	↓	↓		-427.8	-499.0	35.2
2	PROJ MANAGEMENT	2		↓	↓	↔		-13.2	-61.2	-34.0
3	PROJ MANAGEMENT	3	✓	↑	↑	↔		-12.0	-17.4	-3.2
4	SYS ENGINEERING	3	✓	↔	↓	↔		6.4	-26.4	0.0
5	FUNC INTEGRA	3	✓	↓	↓	↔		-7.6	-17.4	-30.8
6	PRIME EQUIP	2		↓	↓	↑		-384.8	-367.6	-309.0
7	SENSORS	3	✓	↑	↑	↔		-36.6	-10.6	-21.6
8	COMMUNICATIONS	3	✓	↑	↓	↔	sc	-203.2	-130.8	-87.0
9	AUX EQUIP	3	✓	↓	↓	↓	sc	-93.2	78.2	8.4
10	ADPE	3	✓	↓	↓	↔	c	-10.2	12.6	4.6
11	COMP PROGRAMS	3	✓	↔	↑	↔		-0.2	3.4	-1.4
12	PCC	3	✓	↓	↑	↔		-11.4	-296.2	-187.2
13	DATA DISPLAY	3	✓	↑	↔	↔	S	-113.0	0.0	0.0
14	I & A	3	✓	↓	↓	↔	sc	83.0	-24.2	-24.8
15	SPARES	2	✓	↑	↑	↔		1.2	-7.8	-6.2
16	DATA	2		↔	↓	↔	c	-6.6	-17.8	-16.0
17	ENG DATA	3	✓	↓	↓	↔		-6.6	-4.6	0.0
18	MANAGEMENT DATA	3	✓	↑	↓	↑		0.0	-13.2	-16.0
19	TEST & EVAL	2		↔	↑	↔		14.6	0.6	-2.0
20	TEST FACILITIES	3	✓	↔	↔	↔		-0.6	2.0	0.0
21	SYSTEM TEST	3	✓	↓	↑	↔		12.0	-5.6	-2.0
22	PCC TEST	3	✓	↑	↓	↔		3.2	4.2	0.0
23	PERF MEASURE BL	2		↓	↓	↑		-427.8	-499.0	-404.0
24	OVERHEAD	2	✓					0.0	0.0	0.0
25	COST OF MONEY	2	✓					0.0	0.0	0.0
26	GEN & ADMIN	2	✓	↓	↓	↔		-39.0	-45.2	-36.8

STATUS OF ELEMENT

This element represents 9.8 percent of the total contract.

Period actuals are running at 211.8.

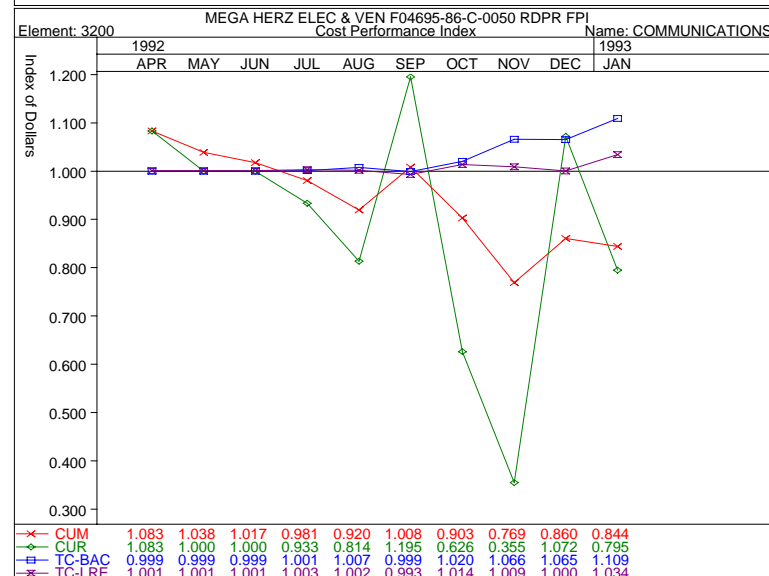
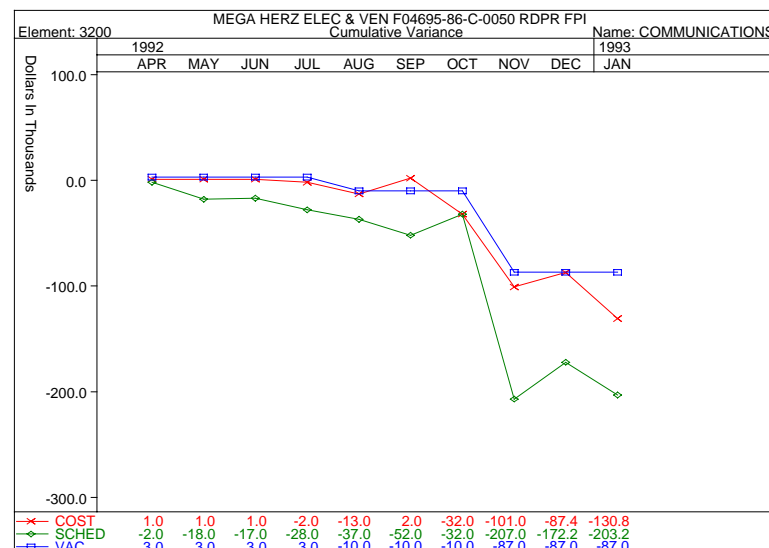
This effort has an unfavorable cost variance of -18.5%.

There are indications that you've got problems developing!

Earned value data indicates this effort is about 35% complete.

Work in process is behind schedule.

At current performance, earned value data indicates the schedule will slip about 5 weeks.





C/S Glue at a Glance



Components: C/S Glue Toolbar



Filter
Red
Tasks

Filter
Yellow
Tasks

Filter
Green
Tasks

Filter
All
Tasks

Auto
Sync

wInsight
Quad
Chart

Tile
wInsight &
Schedule

Exit
C/S Glue



Components: Analysis Gantt Chart

